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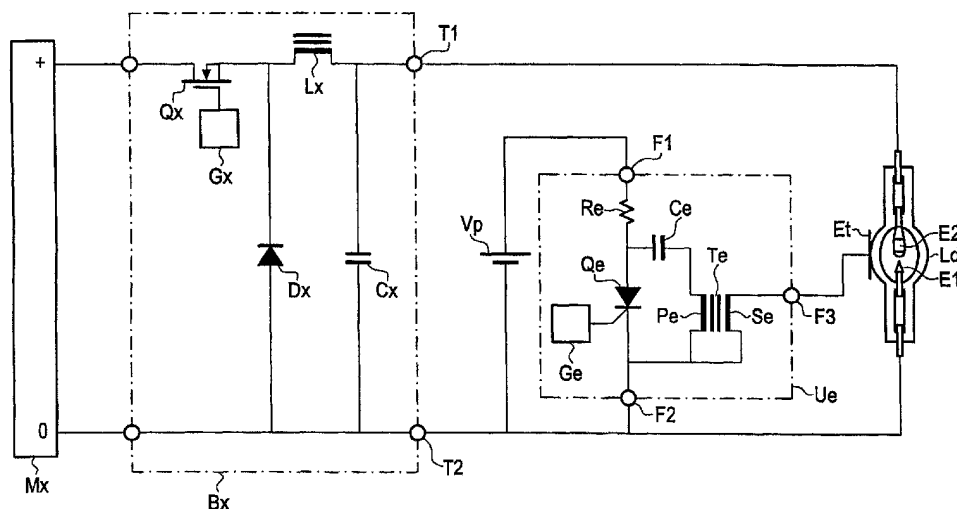
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(54) **Light source device**

(57) Light source device which includes a discharge lamp which contains at least 0.15 mg mercury per cubic millimeter of the volume of the discharge space, a pair of electrodes opposite one another to create the main discharge and spaced a distance from one another of less than or equal to 2.5 mm, and an auxiliary electrode arranged such that it does not come into contact with the discharge space for the main discharge. The light

source device further including a feed circuit to feed the discharge current to the electrodes for the main discharge, and a starter which produces a high voltage between one of the electrodes of the two electrodes for the main discharge and the auxiliary discharge, such that the starter produces a voltage two to five times as high as the voltage necessary for starting the main discharge in the lamp at the room temperature state.



**Fig.3**



European Patent  
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# EUROPEAN SEARCH REPORT

Application Number  
EP 02 00 5546

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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Place of search Munich		Date of completion of the search 3 March 2004	Examiner Villafuerte Abrego
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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